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Symbolic transfer function-based approaches to certified compilation. Xavier Rival

January 2004 POPL '04: Proceedings of the 31st ACM SIGPLAN-SIGACT syr programming languages Publisher: ACM

Full text available: Pdf (212.73 KB)

Additional Information: full citation, abstract, a

Bibliometrics: Downloads (6 Weeks): 5. Downloads (12 Months): 46. Citation (

We present a framework for the certification of compilation and of comp uses a symbolic transfer functions-based representation of programs, so compiled programs present similar behaviors. This checking ...

Keywords: abstract interpretation, certification, compilation, static ana

Also published in:

January 2004 SIGPLAN Notices Volume 39 Issue 1

2 The design and development of ZPL

Lawrence Snyder

June 2007 HOPL III: Proceedings of the third ACM SIGPLAN conference c languages

Publisher: ACM

Full text available: Mov (56:16 MIN), Por (2.65 MB) Additional Information: full citatic abstract.

Bibliometrics: Downloads (6 Weeks): 20. Downloads (12 Months): 197. Citatio

ZPL is an implicitly parallel programming language, which means all inst manage the parallelism are inserted by the compiler. It is the first impliperformance portability, that is, consistent ...

Keywords: CTA, WYSIWYG performance model, parallel language design problem space promotion, regions, type architecture

3 Parallelizing load/stores on dual-bank memory embedded processor Xiaotong Zhuang, Santosh Pande

August 2006 Transactions on Embedded Computing Systems (TECS) Publisher: ACM

Full text available:

Additional Information:

## Pdf (746.64 KB)

full citation, abstract, /

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 59, Citation (

Many modern embedded processors such as DSPs support partitioned n memory or dual-bank memory) along with parallel load/store instruction and performance. In order to effectively utilize the ...

Keywords: DSP architectures, memory bank allocation, parallel load/st

- 4 Communications of the ACM: Volume 52 Issue 4
- April 2009 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (7.58 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 3709, Downloads (12 Months): 3709, Cit

- 5 Inter-cluster communication in VLIW architectures
- A. S. Terechko, H. Corporaal

June 2007 Transactions on Architecture and Code Optimization (TA-Publisher: ACM

Full text available: Pdf (996.47 KB) Additional Information: full citation, abstract.

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 162, Citatio

The traditional VLIW (very long instruction word) architecture with a sin up well to address growing performance demands on embedded media VLIW processor in smaller clusters, which are ...

**Keywords:** Instruction-level parallelism, VLIW, clock frequency, cluster scheduler, intercluster communication, optimizing compiler, pipelining, I

- Reducing the cost of conditional transfers of control by using compar
   William Kreahling, Stephen Hines, David Whalley, Gary Tyson
  - July 2006 LCTES '06: Proceedings of the 2006 ACM SIGPLAN/SIGBED co compilers, and tool support for embedded systems

Publisher: ACM

Full text available: Additional Information: full citation, abstract, i

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 21, Citation (

A significant portion of a program's execution cycles are typically dedice transfers of control. Much of the research on reducing the costs of these branch, while the comparison has been largely ...

Keywords: branch, comparison, compiler, optimization

Also published in:

July 2006 SIGPLAN Notices Volume 41 Issue 7

7 Handling irreducible loops: optimized node splitting versus DJ-graph

Sebastian Unger, Frank Mueller

July 2002 Transactions on Programming Languages and Systems ( Publisher: ACM

Full text available: Pdf (386.11 KB) Additional Information; full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 52, Citation (

This paper addresses the question of how to handle irreducible regions abscome even more relevant for contemporary processors since recent vively on instruction scheduling. The contributions ...

**Keywords**: Code optimization, compilation, control flow graphs, instruct flowgraphs, loops, node splitting, reducible flowgraphs

- 8 Communications of the ACM: Volume 51 Issue 12
- December 2008 Communications of the ACM Publisher: ACM

Full text available: Digital Edition , Pdf (6.91 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 1165, Downloads (12 Months): 3218, Cit

- 9 Communications of the ACM: Volume 52 Issue 2
- February 2009 Communications of the ACM Publisher: ACM

Full text available: Digital Edition, Target (7.09 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 1895, Downloads (12 Months): 4766, Cit

- 10 Fast online pointer analysis
- Martin Hirzel, Daniel Von Dincklage, Amer Diwan, Michael Hind April 2007 Transactions on Programming Languages and Systems (

Publisher: ACM

Full text available: Pdf (430.96 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 160, Citatio

Pointer analysis benefits many useful clients, such as compiler optimiza: Unfortunately, common programming language features such as dynam language interfaces, make pointer analysis difficult. ...

Keywords: Pointer analysis, class loading, native interface, reflection

11 Exhaustive Optimization Phase Order Space Exploration Prasad A. Kulkarni, David B. Whalley, Gary S. Tyson, Jack W. Davidson March 2006 CgO '06: Proceedings of the International Symposium on Code Publisher: IEEE Computer Society

Full text available: Fdf (400.93 KB) Additional Information: full cliation, abstract,

Bibliometrics: Downloads (6 Weeks): 7. Downloads (12 Months): 42, Citation (

The phase-ordering problem is a long standing issue for compiler writer typically have numerous different code-improving phases, many of whic These phases interact by enabling or disabling opportunities ...

- 12 A new viewpoint on code generation for directed acyclic graphs S. Liao, K. Keutzer, S. Tjiang, S. Devadas
- January 1998 Transactions on Design Automation of Electronic System Publisher: ACM

Full text available: Pdf (661.59 KB) Additional Information: full citation, abstract, a

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 46, Citation (

We present a new viewpoint on code generation for directed acyclic graj based on binate covering, the problem of satisfying, with minimum cost and can take into account commutativity ...

Keywords: binate covering, code generation, directed acyclic graphs

- 13 A text-compression-based method for code size minimization in emb
- Stan Liao, Srinivas Devadas, Kurt Keutzer January 1999 Transactions on Design Automation of Electronic System Publisher: ACM

Full text available: Pdf (184.16 KB) Additional Information; full citation, abstract, a

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 32, Citation (

We address the problem of code-size minimization in VLSI systems with Reducing code size reduces the production cost of embedded systemswto develop code-size minimization strategies. In our framework, ...

Keywords: code size optimization, compression

- 14 Energy aware compilation for DSPs with SIMD instructions
- Markus Lorenz, Lars Wehmeyer, Thorsten Dräger

LCTES/ SCOPES '02: Proceedings of the joint conference on La for embedded systems: software and compilers for embedded : Publisher: ACM

Full text available: Pdf (220.77 KB) Additional Information: full citation, abstract, a

Bibliometrics: Downloads (6 Weeks): 6. Downloads (12 Months): 55. Citation (

The growing use of digital signal processors (DSPs) in embedded systen optimizing compilers supporting special hardware features. In this pape optimizations with the aim of minimizing energy consumption of ...

Keywords: DSP, SIMD instruction, energy minimization, vectorization,

Also published in:

July 2002 SIGPLAN Notices Volume 37 Issue 7

- 15 Efficient software implementation of embedded communication proto
- asynchronous software thread integration with time- and space-effici Nagendra J. Kumar, Vasanth Asokan, Siddhartha Shivshankar, Alexander C February 2007 Transactions on Embedded Computing Systems (TECS) Publisher: ACM

Full text available: Pdf (596.75 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 130, Citatio

The overhead of context switching limits efficient scheduling of multiple uniprocessor when real-time requirements exist. A software-implement crippled by this problem. The available idle time may  $\dots$ 

**Keywords**: Asynchronous software thread integration, J1850, fine-grai software migration, software-implemented communication protocol cont

16 Hardware/Software Design Space Exploration for a Reconfigurable f Alberto La Rosa, Luciano Lavagno, Claudio Passerone

March 2003 DATE '03: Proceedings of the conference on Design, Auto Volume 1. Volume 1

Publisher: IEEE Computer Society

Full text available: Publisher Site , Pdf (103.11 KB) Additional Information: full citatio terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 25, Citation (

This paper describes an approach to hardware/software design space exprocessors. The existing compiler tool-chain, because of the user-definal extended in order to offer developers an easy way ...

17 Asynchronous software thread integration for efficient software

Nagendra J. Kumar, Siddhartha Shivshankar, Alexander G. Dean

July 2004 LCTES '04: Proceedings of the 2004 ACM SIGPLAN/SIGBED cocompilers, and tools for embedded systems

Publisher: ACM

Full text available: Pdf (229.95 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 60, Citation (

The overhead of context-switching limits efficient scheduling of multiple uniprocessor when real-time requirements exist. Existing software three reduce context switches, but only provide synchronous ...

**Keywords:** J1850, asynchronous software thread integration, fine-grain software migration, software-implemented communication protocol cont

Also published in:

July 2004 SIGPLAN Notices Volume 39 Issue 7

18 Synthesis of concurrent system interface modules with automatic pro-Bill Lin, Steven Vercauteren

November 1994 I CCAD '94: Proceedings of the 1994 I EEE/ACM international design

Publisher: IEEE Computer Society Press

Full text available: Pcf (1.04 MB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 11, Citation (

We describe a new high-level compiler called Integral for designing syst is a high-level concurrent algorithmic specification that can model complogical and arithmetic computations, ...

19 Pointer analysis for structured parallel programs

Fladu Bugina, Martin C. Rinard January 2003 Transactions on Programming Languages and Systems Publisher: ACM

Full text available: Pdi (383.29 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 86, Citation

This paper presents a novel interprocedural, flow-sensitive, and context algorithm for multithreaded programs that may concurrently update shadesigned to handle programs with structured parallel ...

## Keywords: Pointer analysis

20 Proceedings of the 2009 Conference on Asia and South Pacific Desi Kazutoshi Wakabayashi

January 2009 ASP-DAC '09: Proceedings of the 2009 Conference on Asia a

Publisher: IEEE Press

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

On behalf of the Organizing Committee, I would like to invite you to attr Design Automation Conference 2009 (ASP-DAC 2009), being held here from January 19 through 22, 2009, jointly with the Electronic ...

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